

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P256881

Luminaire Tested: **HGL-S-BA-60L940-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1803-682-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BA-60L940-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH AISLE OPTIC
Light Source: (168) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.77 / 1.65
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

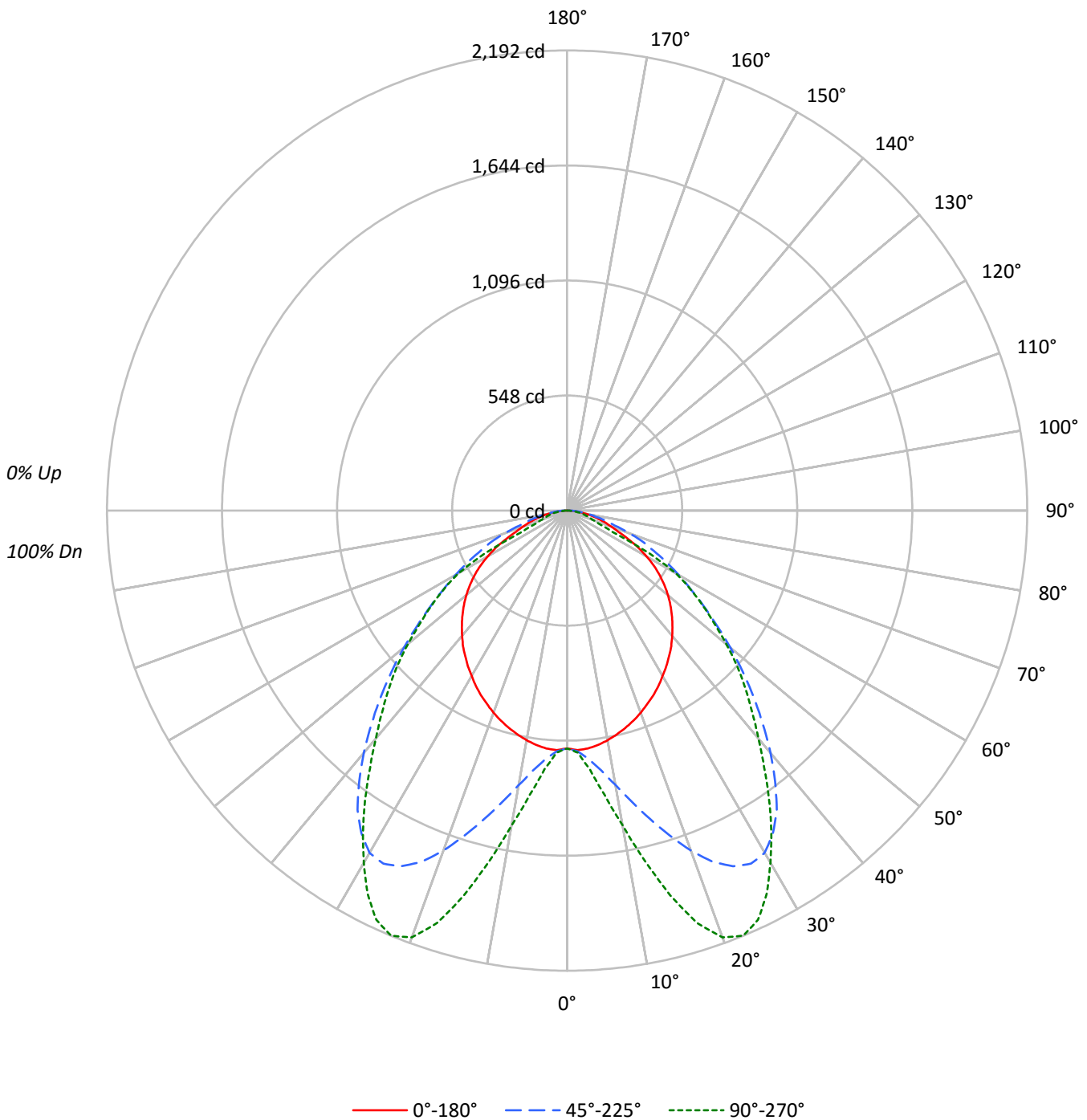
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	63
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	50	59	53	49	47
6	72	59	51	44	70	58	50	44	57	49	44	55	48	44	53	48	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13302	13302	13302
5°	13405	13955	14527
10°	13239	15737	18023
15°	13016	18314	22785
20°	12798	21285	26615
25°	12562	23859	27313
30°	12311	25050	25614
35°	12116	24400	23330
40°	11907	22485	20965
45°	11685	20192	19131
50°	11415	17822	17198
55°	10987	15543	15201
60°	10237	13646	13101
65°	8869	11821	5856
70°	7624	9963	4047
75°	6976	7729	3660
80°	6254	6277	3204
85°	5161	5456	2184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	2.7
10°-20°	428.4	9.7
20°-30°	775.3	17.5
30°-40°	930.5	21.0
40°-50°	881.4	19.9
50°-60°	690.6	15.6
60°-70°	385.5	8.7
70°-80°	163.3	3.7
80°-90°	50.8	1.1
90°-100°	1.8	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1321.1	29.9
0°-40°	2251.5	50.9
0°-60°	3823.6	86.4
0°-90°	4423.2	100.0
90°-120°	1.8	0.0
90°-150°	1.8	0.0
90°-180°	2.0	0.0
0°-180°	4425.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1138	1142	1187	1227	1237	108
15°	1071	1200	1520	1799	1896	302
25°	971	1275	1870	2098	2151	447
35°	847	1304	1741	1668	1677	530
45°	705	1194	1256	1168	1202	544
55°	539	868	795	769	789	480
65°	321	401	455	366	230	321
75°	155	161	191	136	94	165
85°	39	45	56	43	24	44
90°	0	9	17	12	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1142.1	1140.9	1137.5	1132.8	1134.0	1135.2	1135.2	1136.3	1137.5	1140.9	1147.9
5°	1137.5	1135.2	1134.0	1132.8	1138.6	1142.1	1145.6	1152.5	1160.6	1173.4	1187.3
7.5°	1125.9	1125.9	1128.2	1132.8	1145.6	1153.7	1160.6	1178.0	1197.7	1222.0	1248.7
10°	1110.8	1113.1	1120.1	1130.5	1153.7	1166.4	1180.3	1209.3	1242.9	1283.4	1327.4
12.5°	1092.3	1096.9	1108.5	1128.2	1163.0	1182.6	1203.5	1247.5	1297.3	1355.2	1420.1
15°	1071.4	1077.2	1095.8	1124.7	1172.2	1200.0	1229.0	1289.2	1357.6	1435.2	1519.7
17.5°	1049.4	1057.5	1083.0	1123.6	1185.0	1219.7	1256.8	1335.5	1423.6	1517.4	1621.6
20°	1025.1	1036.7	1069.1	1121.3	1196.5	1239.4	1284.6	1383.0	1490.8	1602.0	1723.6
22.5°	997.3	1012.4	1052.9	1116.6	1208.1	1259.1	1312.4	1427.1	1552.1	1678.4	1810.5
25°	970.7	986.9	1034.4	1110.8	1217.4	1275.3	1336.7	1467.6	1607.7	1741.0	1869.5
27.5°	941.7	960.2	1017.0	1105.0	1224.3	1289.2	1357.6	1501.2	1648.3	1780.3	1896.2
30°	909.3	933.6	997.3	1095.8	1227.8	1299.6	1373.8	1527.8	1673.8	1789.6	1882.3
32.5°	879.2	905.8	975.3	1085.3	1229.0	1305.4	1384.2	1535.9	1673.8	1768.8	1824.4
35°	846.7	875.7	953.3	1072.6	1224.3	1304.3	1383.0	1533.6	1649.4	1714.3	1741.0
37.5°	814.3	845.6	930.1	1055.2	1213.9	1296.2	1374.9	1510.4	1599.6	1634.4	1627.4
40°	778.4	813.1	900.0	1033.2	1195.4	1275.3	1350.6	1469.9	1526.7	1532.5	1507.0
42.5°	742.5	778.4	869.9	1004.3	1164.1	1240.6	1310.1	1405.0	1431.7	1418.9	1379.6
45°	705.4	742.5	834.0	969.5	1124.7	1194.2	1252.1	1320.5	1320.5	1297.3	1255.6
47.5°	667.2	703.1	795.8	929.0	1073.8	1134.0	1181.5	1222.0	1203.5	1174.5	1132.8
50°	626.7	662.6	752.9	880.3	1007.7	1057.5	1096.9	1112.0	1083.0	1050.6	1013.5
52.5°	583.8	619.7	701.9	818.9	930.1	967.2	996.2	995.0	960.2	931.3	898.9
55°	538.6	571.1	645.2	746.0	837.5	867.6	885.0	871.1	838.6	812.0	794.6
57.5°	491.1	517.8	581.5	663.7	732.1	755.2	765.6	747.1	724.0	707.7	698.5
60°	437.8	459.9	505.0	568.7	618.5	634.8	641.7	629.0	620.9	616.2	613.9
62.5°	382.2	392.7	421.6	463.3	505.0	516.6	524.7	527.0	525.9	528.2	534.0
65°	320.9	324.3	333.6	354.4	386.9	400.8	415.8	432.1	441.3	450.6	455.2
67.5°	264.1	265.3	269.9	276.8	289.6	304.6	317.4	341.7	362.6	379.9	391.5
70°	223.6	222.4	223.6	227.0	234.0	239.8	245.6	262.9	284.9	313.9	316.2
72.5°	188.8	187.6	188.8	191.1	193.4	195.8	199.2	206.2	218.9	236.3	239.8
75°	155.2	155.2	155.2	157.5	159.8	161.0	163.3	165.6	170.3	183.0	191.1
77.5°	123.9	122.8	125.1	126.3	127.4	129.7	130.9	133.2	135.5	140.2	145.9
80°	93.8	92.7	93.8	96.1	97.3	99.6	99.6	103.1	104.2	107.7	110.0
82.5°	66.0	64.9	66.0	68.3	68.3	70.7	71.8	74.1	76.4	78.8	81.1
85°	39.4	39.4	40.5	41.7	42.9	45.2	46.3	49.8	52.1	54.4	55.6
87.5°	17.4	17.4	18.5	19.7	22.0	24.3	25.5	27.8	30.1	33.6	33.6
90°	0.0	1.2	3.5	5.8	6.9	9.3	9.3	12.7	13.9	16.2	17.4
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.3	3.5	4.6
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1158.3	1151.4	1156.0	1157.2	1158.3	1156.0	1153.7	1156.0	1153.7	1153.7
5°	1204.7	1203.5	1215.1	1223.2	1226.7	1226.7	1233.6	1238.2	1239.4	1237.1
7.5°	1277.6	1284.6	1307.7	1324.0	1333.2	1337.9	1350.6	1357.6	1366.8	1365.7
10°	1373.8	1395.8	1430.5	1453.7	1469.9	1478.0	1496.5	1509.3	1524.3	1523.2
12.5°	1479.2	1519.7	1568.4	1605.4	1629.8	1644.8	1669.1	1692.3	1706.2	1707.4
15°	1598.5	1654.1	1720.1	1767.6	1798.9	1818.6	1852.2	1875.3	1898.5	1896.2
17.5°	1715.5	1782.7	1862.6	1925.1	1954.1	1972.6	2013.2	2037.5	2059.5	2059.5
20°	1819.7	1897.3	1978.4	2036.3	2064.1	2082.7	2117.4	2141.7	2158.0	2163.7
22.5°	1903.1	1974.9	2043.3	2093.1	2110.5	2125.5	2152.2	2171.9	2182.3	2191.5
25°	1949.5	2007.4	2053.7	2088.5	2097.7	2105.8	2120.9	2135.9	2138.3	2151.0
27.5°	1950.6	1993.5	2019.0	2031.7	2032.9	2032.9	2043.3	2049.1	2053.7	2058.3
30°	1908.9	1928.6	1933.2	1934.4	1928.6	1925.1	1932.1	1933.2	1936.7	1936.7
32.5°	1825.5	1830.1	1822.0	1809.3	1805.8	1798.9	1803.5	1801.2	1807.0	1810.5
35°	1718.9	1710.8	1690.0	1680.7	1668.0	1664.5	1668.0	1665.7	1669.1	1677.2
37.5°	1597.3	1579.9	1562.6	1546.4	1537.1	1527.8	1531.3	1534.8	1539.4	1541.7
40°	1472.2	1449.1	1430.5	1414.3	1405.0	1398.1	1403.9	1407.4	1417.8	1417.8
42.5°	1346.0	1320.5	1302.0	1291.5	1284.6	1278.8	1288.1	1290.4	1303.1	1305.4
45°	1220.9	1198.9	1183.8	1173.4	1167.6	1169.9	1179.2	1185.0	1196.5	1202.3
47.5°	1106.2	1087.7	1071.4	1066.8	1066.8	1069.1	1078.4	1084.2	1093.5	1100.4
50°	993.8	979.9	969.5	963.7	964.9	968.4	976.5	981.1	990.4	990.4
52.5°	883.8	874.5	869.9	862.9	862.9	861.8	869.9	874.5	881.5	882.6
55°	787.7	779.5	774.9	770.3	769.1	771.4	776.1	779.5	787.7	788.8
57.5°	696.2	692.7	689.2	685.7	684.6	685.7	688.0	690.4	695.0	696.2
60°	612.8	611.6	607.0	603.5	602.3	601.2	600.0	598.9	601.2	600.0
62.5°	536.3	532.8	529.4	522.4	518.9	509.7	498.1	472.6	451.7	440.2
65°	461.0	458.7	442.5	395.0	366.0	329.0	289.6	251.4	238.6	230.5
67.5°	388.0	349.8	291.9	250.2	235.1	221.2	200.4	179.5	168.0	161.0
70°	279.2	246.7	220.1	196.9	186.5	178.4	162.2	147.1	136.7	132.0
72.5°	225.9	205.0	187.6	170.3	162.2	152.9	136.7	121.6	112.4	107.7
75°	188.8	176.1	158.7	142.5	135.5	128.6	117.0	105.4	97.3	93.8
77.5°	149.4	142.5	132.0	119.3	113.5	108.9	98.5	90.3	82.2	78.8
80°	110.0	107.7	100.8	91.5	86.9	83.4	75.3	68.3	61.4	59.1
82.5°	81.1	78.8	73.0	66.0	63.7	60.2	54.4	48.6	44.0	41.7
85°	55.6	54.4	49.8	45.2	42.9	40.5	34.7	30.1	26.6	24.3
87.5°	34.7	33.6	31.3	26.6	24.3	22.0	17.4	13.9	10.4	9.3
90°	17.4	17.4	16.2	12.7	11.6	10.4	6.9	3.5	1.2	0.0
92.5°	4.6	4.6	4.6	3.5	3.5	2.3	1.2	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P256881

CATALOG NUMBER: HGL-S-BA-60L940-UNV-4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)